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IS 7139 (1991): Orthodontic Pliers, Arrow Headed, Clasp Forming - Shape, Dimensions and Tests [MHD 8: Dentistry]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

आर्थोडॉन्टिक्स प्लास, नुकीले सिरे वाले,
कलैस्प अभिरूपण के लिए — आकृति, आयाम एवं परीक्षण
(पहला पुनरीक्षण)

Indian Standard

ORTHODONTIC PLIERS, ARROW HEADED,
CLASP FORMING — SHAPE,
DIMENSIONS AND TESTS
(*First Revision*)

UDC 615·472 : 621·881·4 : 616·314-72

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NEW DELHI 110002

October 1991

Price Group 1

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Dental Instruments and Equipment Sectional Committee had been approved by the Medical Equipment & Hospital Planning Division Council.

This standard was first issued in 1973 and covered specification for arrow headed clasp forming pliers. It has been revised so as to retain the requirements in respect of shape, dimensions and specific tests only, as the specification part of the pliers is, covered in IS 12507 : 1988 'General requirements for dental pliers'. This standard is, therefore, intended to be used only in respect of the shape, dimensions and specific tests for arrow headed clasp forming pliers.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the results of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

ORTHODONTIC PLIERS, ARROW HEADED, CLASP FORMING — SHAPE, DIMENSIONS AND TESTS

(*First Revision*)

1 SCOPE

This standard specifies the shape, dimensions and specific tests for arrow headed, clasp forming pliers used in dentistry.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
1501 (Part 1) : 1984	Method for Vickers hardness test for metallic materials : Part 1 HV 5 to HV 100 (<i>second revision</i>)
3642 (Part 1) : 1990	Specification for surgical instruments : Part 1 Non-cutting articulating type instruments (<i>second revision</i>)

3 SHAPE AND DIMENSIONS

3.1 The shape and dimensions of the arrow

headed, clasp forming orthodontic pliers shall be as shown in Fig. 1.

3.2 Joints

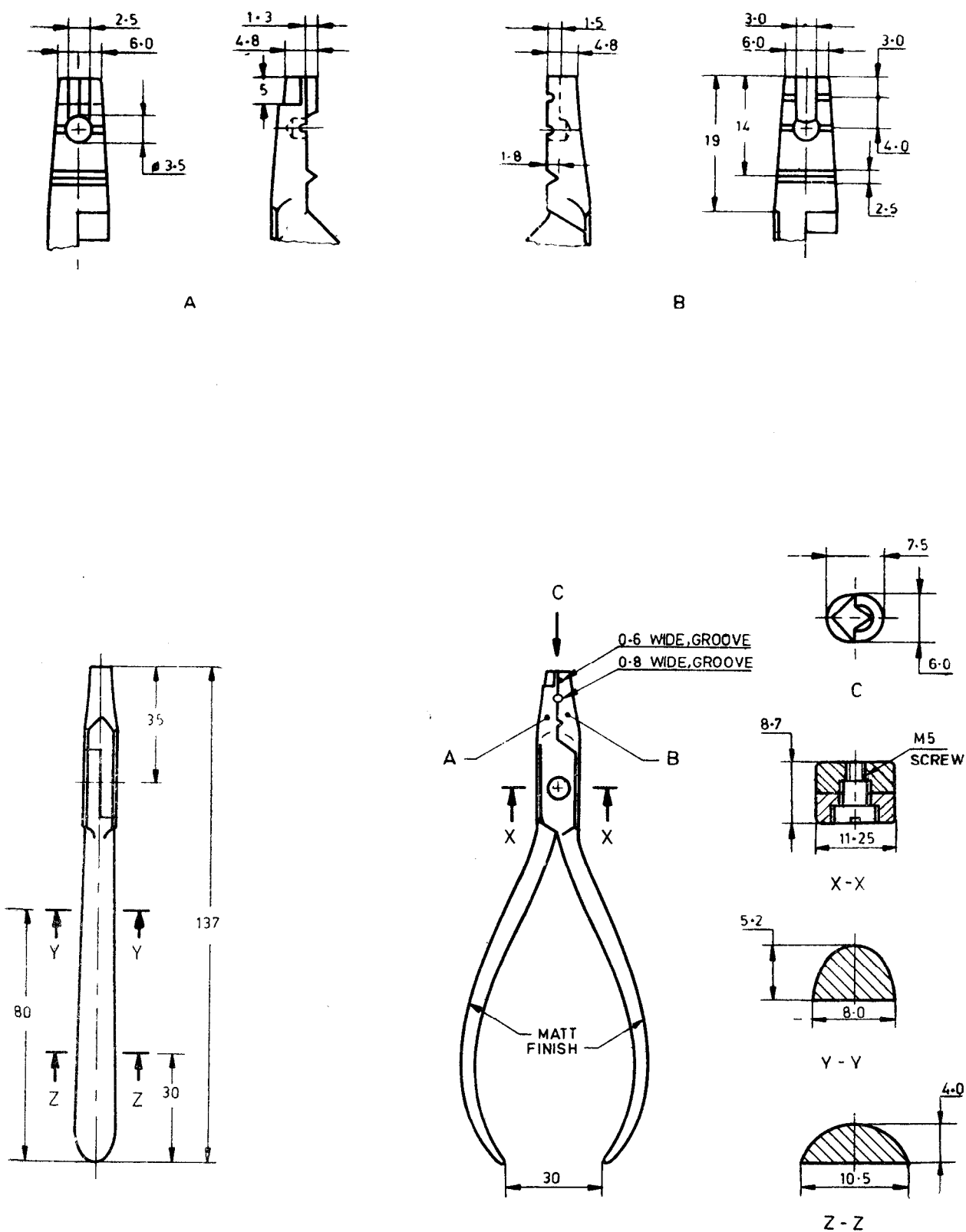
The joint of the instrument shall be screw joint in accordance with 13.2.1 of IS 3642 (Part 1) : 1990.

4 TESTS**4.1 Performance Test**

The instrument shall be used to form an arrow headed clasp from an orthodontic stainless steel wire (hard drawn) of 0.63 mm diameter. This shall be done six times. On completion of the test, the instrument shall show no sign of damage, when examined under a microscope of 20X magnification.

4.2 Hardness Test

When tested in accordance with IS 1501 (Part 1) : 1984, the Vickers hardness of the finished instruments (excluding screws) shall be 420 to 460 HV.



All dimensions in millimetres.

FIG. 1 ORTHODONTIC PLIERS, ARROW HEADED, CLASP FORMING

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Doc : No. MHD 8 (2184)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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